

Scaled data based on original data using

LM-41-14 Approved Method for Photometric Testing Of Indoor Fluorescent Luminaires

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: io LED

Report Number: P274291

Luminaire Tested: **LD4B20DE010W2N2765 EU4B1020W2N902765 4LBW0MW**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P274291  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35172)  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: io LED  
Catalog Number: LD4B20DE010W2N2765 EU4B1020W2N902765 4LBW0MW  
Description: PORTFOLIO 4" W2N RN DOWNLIGHT, WIDE DISTRIBUTION WITH MATTE WHITE FINISH  
Light Source: W2N 2700K-6500K CCT TUNING RANGE  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1479.3 lumens  
Efficiency: N/A  
Efficacy: 52.8 lumens/watt  
Spacing Criteria (0/90/45): 1.1 / 1.1 / 1.09  
Luminous Opening: Circular (Dia: 0.35' x H: 0')  
CIE Type: Direct

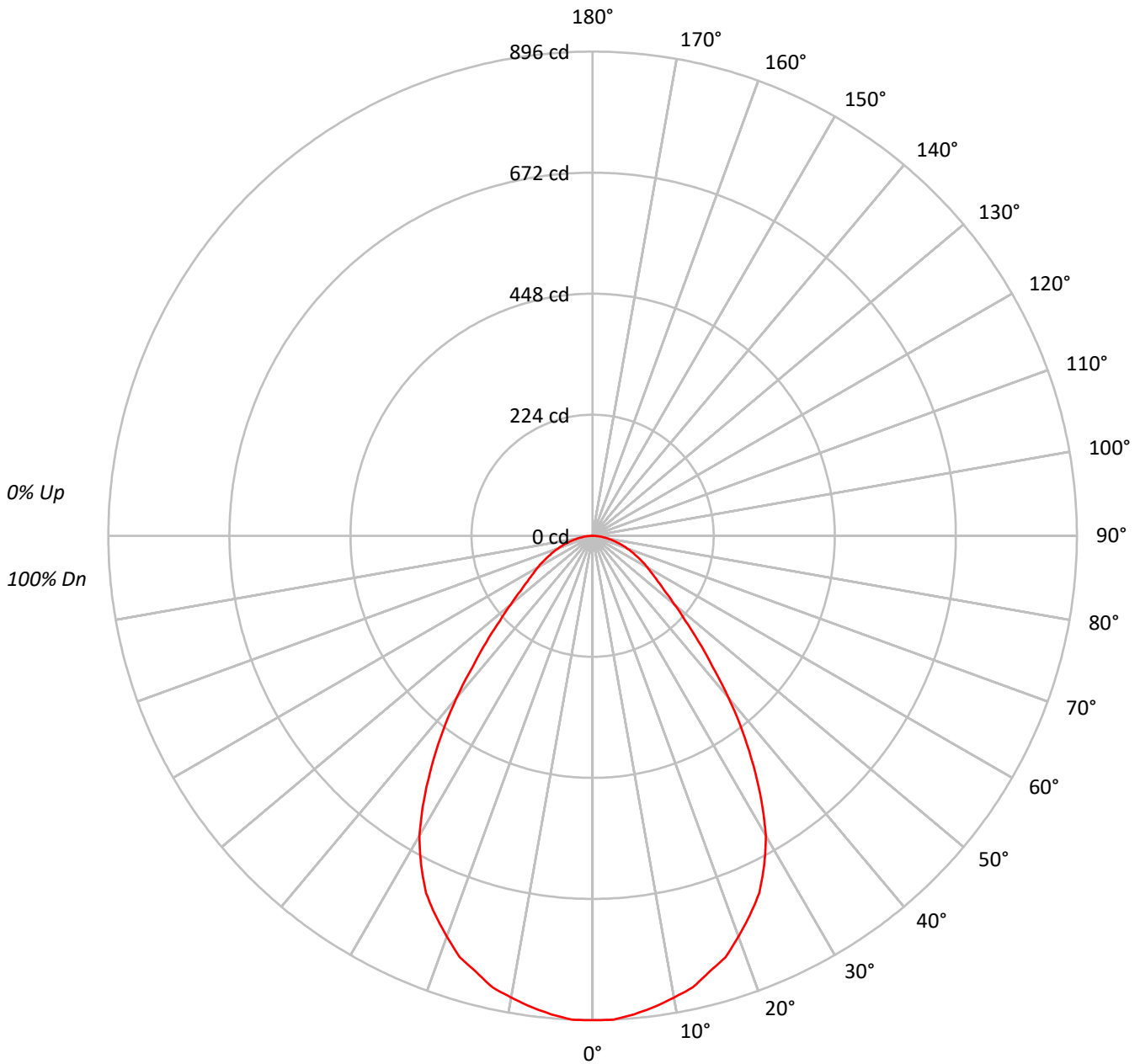
Input Watts (W): 28  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Luminous Intensity Polar Plot





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**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

RF	20				20				20				20				20			
RC	80				70				50				30				10		0	
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100		
1	111	107	104	101	108	105	102	99	101	98	96	97	95	93	93	92	90	88		
2	103	96	91	86	101	94	89	85	91	87	83	88	84	81	85	82	80	78		
3	96	87	80	75	93	85	79	74	83	77	73	80	76	72	78	74	71	69		
4	89	79	72	66	87	78	71	66	75	69	65	73	68	64	71	67	63	61		
5	83	72	64	59	81	71	64	58	69	63	58	67	62	57	65	61	57	55		
6	78	66	58	53	76	65	58	53	64	57	52	62	56	52	60	55	51	50		
7	73	61	53	48	71	60	53	48	59	52	47	57	51	47	56	51	47	45		
8	68	56	49	44	67	56	49	44	54	48	43	53	47	43	52	47	43	41		
9	64	52	45	40	63	52	45	40	51	44	40	50	44	40	49	43	39	38		
10	61	49	42	37	59	48	41	37	47	41	37	46	41	37	46	40	36	35		

**AVERAGE LUMINANCE (cd/sqm):**

	0°
0°	97941
5°	97471
10°	96257
15°	94451
20°	91728
25°	87933
30°	80883
35°	69132
40°	55854
45°	43002
50°	33605
55°	28154
60°	25589
65°	23320
70°	21468
75°	19461
80°	16926
85°	14417



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	84.2	5.7
10°-20°	235.4	15.9
20°-30°	332.6	22.5
30°-40°	322.2	21.8
40°-50°	217.4	14.7
50°-60°	134.9	9.1
60°-70°	90.2	6.1
70°-80°	49.4	3.3
80°-90°	13.0	0.9
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	652.2	44.1
0°-40°	974.4	65.9
0°-60°	1326.7	89.7
0°-90°	1479.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1479.3	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	896	
5°	889	84
15°	835	235
25°	729	333
35°	518	322
45°	278	217
55°	148	135
65°	90	90
75°	46	49
85°	12	13
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	896.4
2.5°	896.4
5°	888.7
7.5°	879.1
10°	867.6
12.5°	856.1
15°	835.0
17.5°	817.7
20°	788.9
22.5°	760.1
25°	729.4
27.5°	687.2
30°	641.1
32.5°	581.6
35°	518.3
37.5°	454.9
40°	391.6
42.5°	328.2
45°	278.3
47.5°	232.3
50°	197.7
52.5°	168.9
55°	147.8
57.5°	130.5
60°	117.1
62.5°	103.7
65°	90.2
67.5°	78.7
70°	67.2
72.5°	57.6
75°	46.1
77.5°	36.5
80°	26.9
82.5°	19.2
85°	11.5
87.5°	3.8
90°	0.0



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— 0°-180°







(END OF REPORT)